

3.0 Meteorological Data

3.1 Solar Radiation

Solar radiation was continuously monitored by CH2M HILL at the South ENR South Technology Research Compound (STRC) using a pyranometer and photosynthetically active radiation (PAR) quantum sensor. Exhibits 3-1 and 3-2 illustrate total solar radiation and PAR, respectively, at this site for the duration of the study. PAR and total insolation monitored during the last quarter averaged 22.00 Einstein per square meter per day ($E/m^2/d$) and 13.01 megajoules per square meter per day $MJ/m^2/d$, respectively. Average total insolation and PAR both exhibited a decrease from previous quarters.

EXHIBIT 3-1

Total Solar Radiation Measured at the South ENR STRC

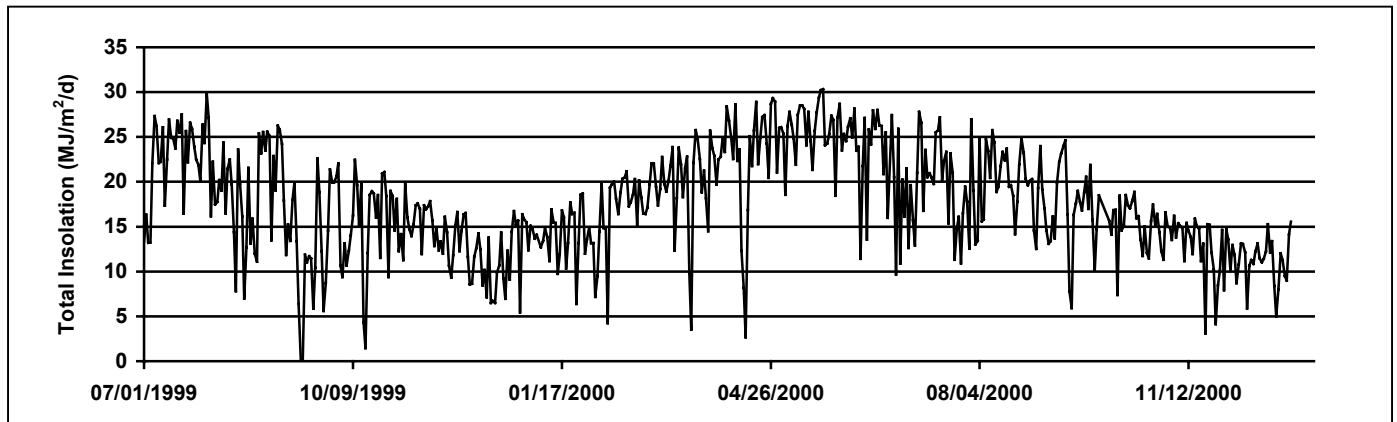
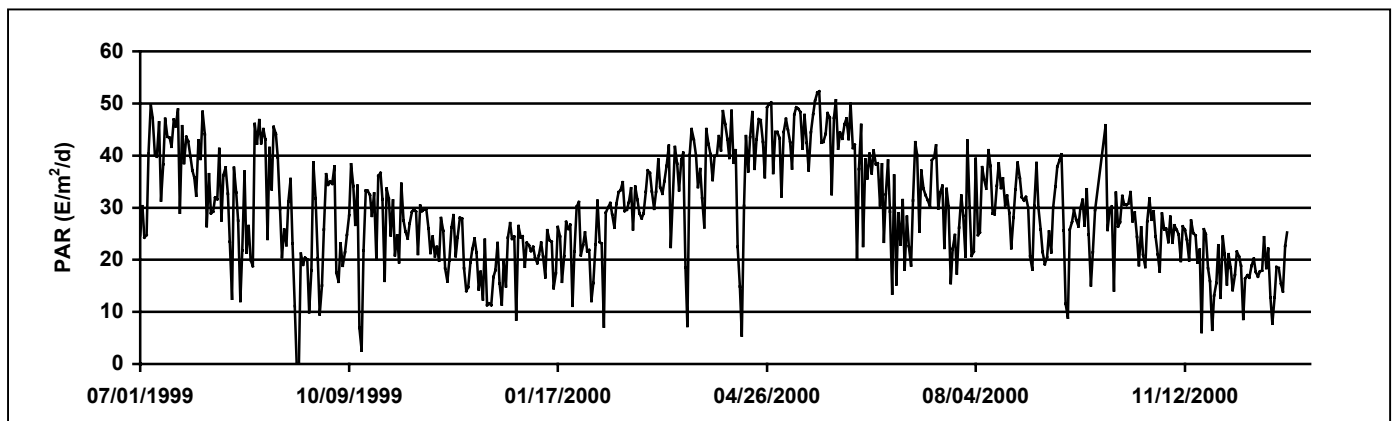


EXHIBIT 3-2

Photosynthetically Active Radiation Measured at the South ENR STRC



3.2 Air Temperature

On May 29, 1999, CH2M HILL initiated continuous monitoring of air temperature. An air temperature probe was mounted along with the solar radiation equipment at the South ENR STRC. Air temperature averaged 22.37, 20.06, and 17.67 degrees C during the October, November, and December study periods, respectively. Exhibit 3-3 presents average, maximum, and minimum air temperatures currently available at the South ENR STRC.

3.3 Rainfall

Daily rainfall data were provided by the District from ENR Rainfall Stations ENR301 (South) and ENR101 (North). Exhibit 3-4 illustrates daily total rainfall at each ENR Rainfall Station for the July 1999 through December 2000 study period. Rainfall during this quarter totaled 9.95 inches at the North Station and 11.64 inches at the South Station. Most of the quarterly difference in rainfall quantities between the two sites is attributable to November precipitation. There was approximately 0.56 inch more rainfall measured at the South site in November compared to the North site.

3.4 Evapotranspiration

Daily evapotranspiration (ET) data were provided by the District. Exhibit 3-5 illustrates daily total ET at the ENR Evapotranspiration Station ENR for July 1999 through December 2000.

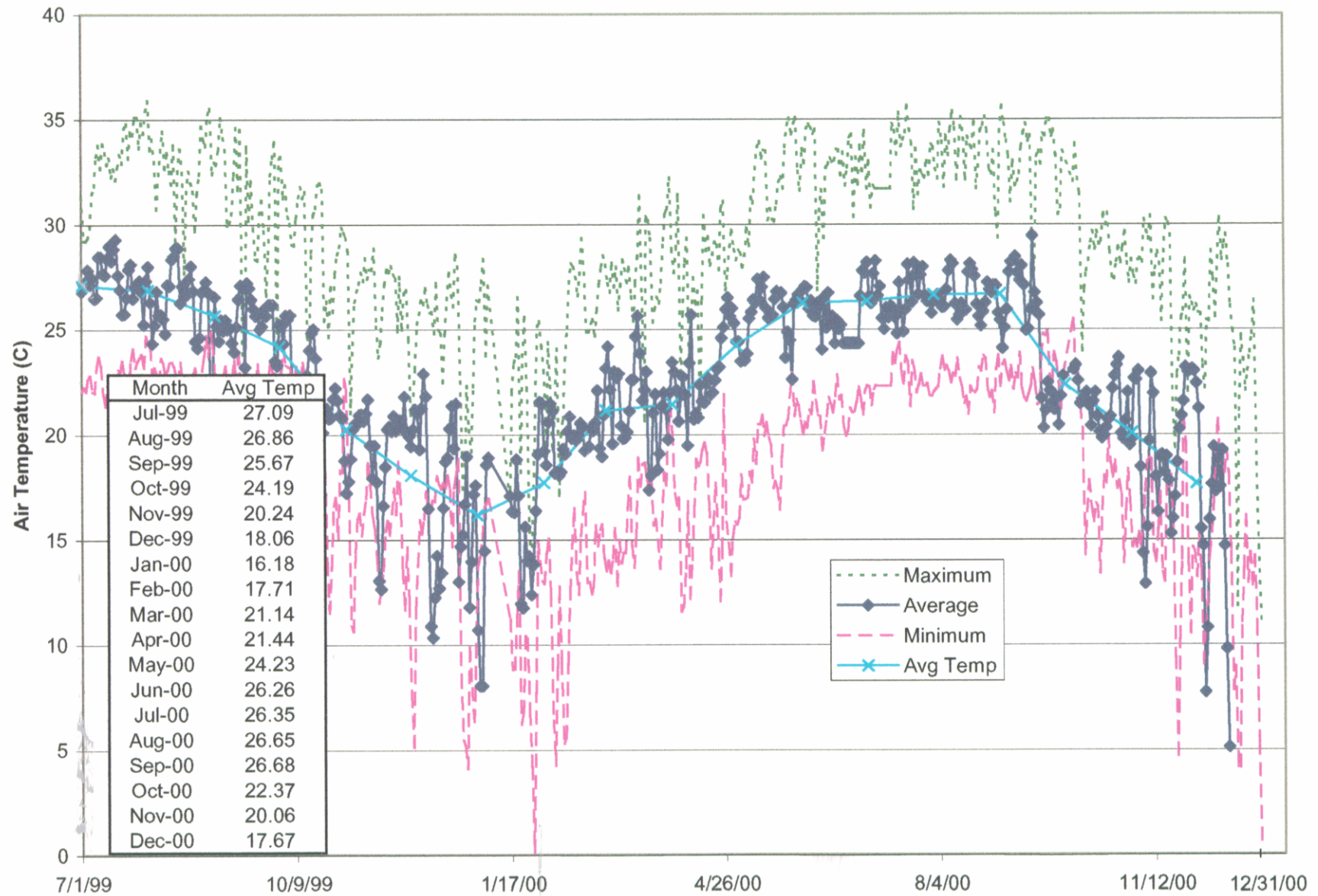
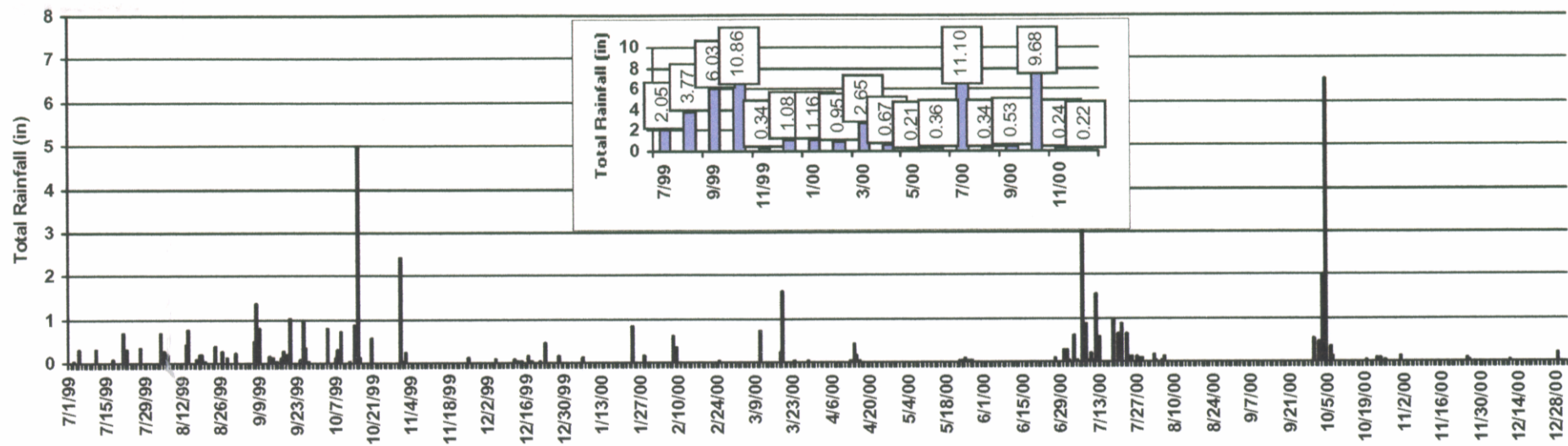


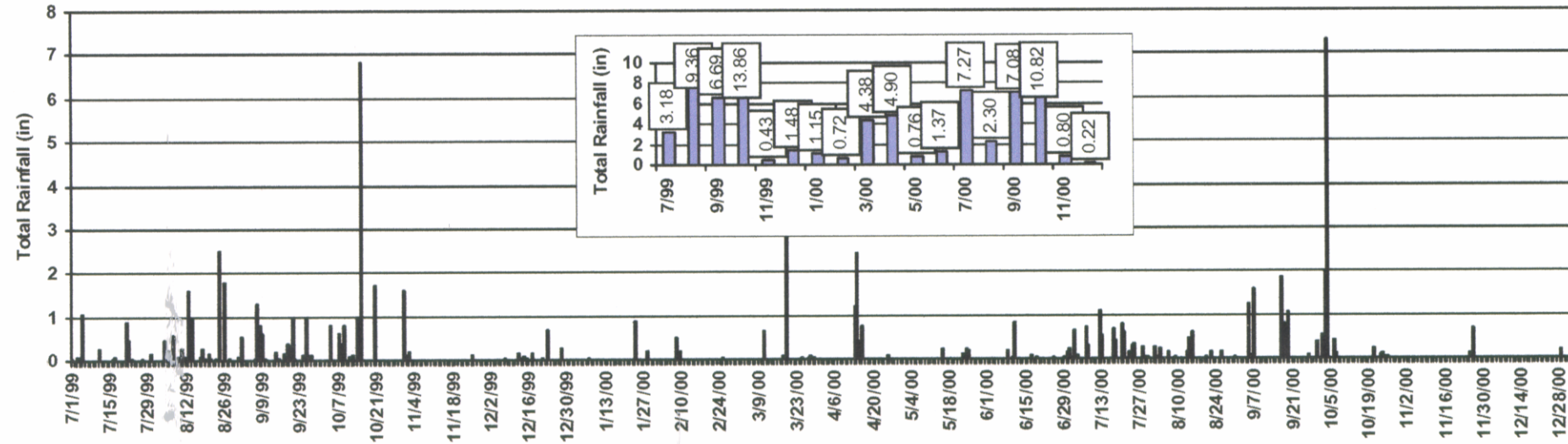
Exhibit 3-3

Average Daily Air Temperature Data at the South ENR STRC

NORTH ENR STATION ENR101



SOUTH ENR STATION ENR301



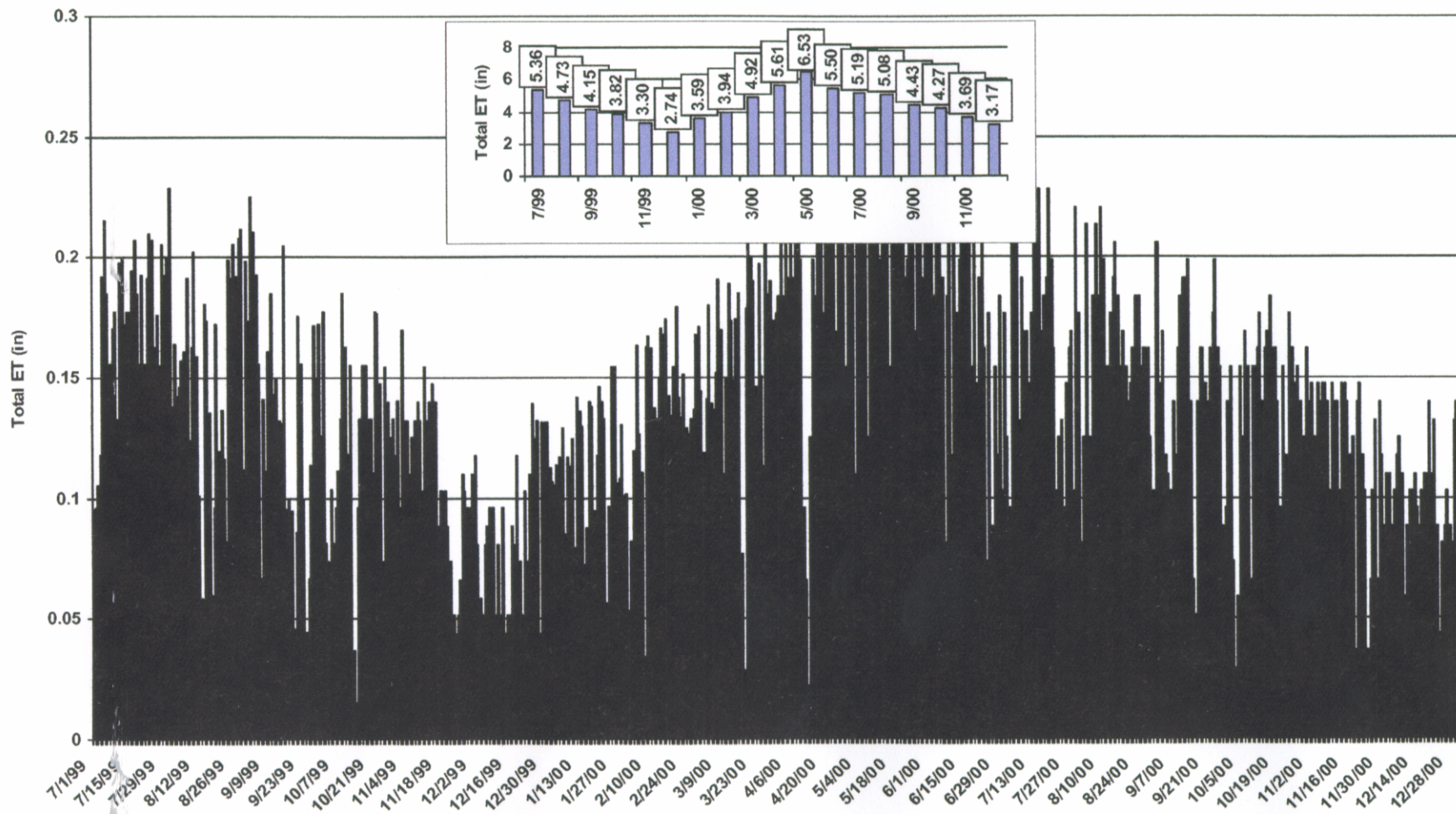


Exhibit 3-5

Daily Evapotranspiration Data at the ENR Evapotranspiration Station ENRP